

Abstract

A contact material which provides improved wear resistance as well as reduced adhesion utilizing the features of an intermetallic compound having an ordered phase, with the intention of (i) improving the seizure resistance and/or wear resistance of an implement bearing which slides under low-speed, high-surface-pressure conditions and is susceptible to lubricant starvation; (ii) preventing abnormal noises; and (iii) achieving prolonged greasing intervals. The contact material contains 10% by volume or more a metallic alloy phase having such a composition range that causes an order-disorder transition. The metallic alloy phase is a Fe base alloy phase containing one or more elements selected from the group consisting of Al, Si, Co and Ni.